PCS CLINICAL AUDIT TOOL

USER GUIDE

APPENDICES C:
BEST PRACTICE DATA MAPPINGS

PEN COMPUTER SYSTEMS PTY LTD

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2.5	20/05/2009	Christine Chidgey	The CAT User Guide Appendices B, C and D have been split out into separate documents. These Appendices cover the Clinical Desktop System data mappings. Add Waist and BSLF

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INTRODUCTION

Clinical Audit Tool (CAT)

The Clinical Audit Tool (CAT) analyses clinical information from GP Clinical Desktop Systems. It translates data into real statistical and graphical information that is easy to understand and action. This allows practitioners to assess and improve the quality and completeness of patient information. The benefit to the practice is to assist with its ongoing accreditation and provide opportunities to grow practice income. The emphasis of the tool is to help practice staff to take specific action to improve patient coverage in chronic disease management and prevention.

User Guide

The purpose of the User Guide is to provide instructions on how to install and use the functionality provided by the CAT.

The User Guide is split into 2 parts:
Part 1: Installation and Configuration including how to collect data sets
Part 2: Functionality

The Appendices for each Clinical Desktop System's Data Mappings are provided separately.

This full User Guide is available from
http://help.pencs.com.au/cat.htm

The Appendices contained in this document are for the Best Practice clinical systems.

APPENDIX C – BEST PRACTICE DATA MAPPINGS

APPENDIX C-1 - CONDITIONS DATA MAPPINGS (BP)

The data collection process collects conditions that are found on the Best Pratice 'Past History' screen in both the active and inactive parts of the screen. Chronic conditions are flagged as true for a patient if the condition is marked as **either active or inactive**.

From the list below only Asthma and Depression are regarded as being recoverable. These conditions are flagged as true if they are marked as **active only**.

CAT Category	Best Practice Mapping
Diabetes	
> Type II	Diabetes Mellitus, NIDDM Diabetes Mellitus, Type 2 NIDDM Non insulin dependent Diabetes Mellitus Type 2 Diabetes Mellitus
> Type I	Diabetes mellitus, IDDM Diabetes mellitus, Type 1 IDDM Insulin dependent Diabetes mellitus Juvenile onset Diabetes mellitus Type 1 Diabetes mellitus
> Undefined diabetic	Diabetes Diabetes - controlled Diabetes - Unstable Diabetes Mellitus Diabetic endarteritis Diabetic peripheral vascular disease Peripheral vascular disease, diabetic Unstable Diabetes
Respiratory	
> Asthma [active only]	Acute severe asthma Allergic asthma Allergy induced asthma Asthma Asthma review Asthma, allergy induced Asthma, exercise induced Asthma, infective exacerbation Bronchial asthma Exercise induced asthma Exertional asthma Infective exacerbation of asthma Status asthmaticus Wheezy bronchitis

> COPD	Bronchitis, chronic Chronic bronchitis Chronic Obstructive Airways Disease Chronic Obstructive Pulmonary Disease COAD COAD - Infective exacerbation COPD Emphysema
Cardiovascular	
> CHD	Acute coronary insufficiency Acute myocardial infarction AMI Angina Angina pectoris Angiogram, coronary Angioplasty, coronary Anterior myocardial infarct Anterolateral myocardial infarct Balloon coronary angioplasty CABG Coronary angiogram Coronary angiography Coronary Angiography - No significant obstr Coronary angioplasty Coronary angioplasty with stent Coronary artery bypass graft Coronary artery disease Coronary artery endarterectomy Coronary artery stent Coronary endarterectomy Coronary insufficiency Coronary occlusion Health assessment Heart attack IHD Inferior myocardial infarction Ischaemic heart disease MI Myocardial infarction Myocardial infarction, anterior Myocardial infarction, anterolateral Myocardial infarction, inferior Myocardial infarction, posterior Myocardial infarction, subendocardial Myocardial infarction, superior Occlusion, Coronary artery Posterior myocardial infarct Preinfarction syndrome Stent, coronary artery Subendocardial infarct Subendocardial myocardial infarct Superior myocardial infarct Unstable angina

> Hypertension	Borderline hypertension Essential hypertension High blood pressure Hypertension Hypertension - Preventive care Hypertension in pregnancy Hypertension, Isolated systolic Hypertension, borderline Hypertension, malignant Hypertension, portal Hypertension, pulmonary Hypertension, renovascular Hypertension, white coat Idiopathic pulmonary hypertension Isolated systolic hypertension Labile Blood Pressure Labile BP Malignant hypertension Portal hypertension Pregnancy induced hypertension Preventive care - Hypertension Primary pulmonary hypertension Pulmonary hypertension Renal hypertension Renovascular hypertension Severe refractory hypertension White coat hypertension
> Heart Failure	Acute cardiac failure Acute heart failure Biventricular heart failure Cardiac failure Cardiac failure, acute CCF Congestive cardiac failure Congestive heart failure Cor pulmonale Heart failure Heart failure, acute Heart failure, high output Heart failure, left High output cardiac failure High output heart failure Hypertensive heart failure Left heart failure Left Ventricular Failure LHF LVF RHF Right heart failure Right ventricular failure RVF

> Stroke	Cerebral haemorrhage Cerebral infarction Cerebrovascular Accident CVA Haemorrhage, intracerebral Haemorrhagic CVA Haemorrhagic stroke Intracerebral bleed Intracerebral haemorrhage Intracranial haemorrhage Ischaemic stroke Lacunar Stroke Migrainous stroke Stroke Stroke, haemorrhagic Stroke, ischaemic Stroke, lacunar Stroke, migrainous Stroke, thrombotic Thrombotic stroke
Mental Health	
> Depression [active only]	Anxiety/Depression Depression Depression, endogenous Depression, Post Natal Depression, reactive Endogenous depression Neurotic depression Organic depression Post Natal Depression Reactive depression
> Anxiety	Anxiety Anxiety disorder Anxiety neurosis Anxiety/Depression Fear, irrational GAD Generalised Anxiety Disorder Irrational fear Neurotic depression Phobia Phobic anxiety disorder Phobic disorder Social Anxiety Disorder Social phobia
> Schizophrenia	Borderline schizophrenia Catatonic schizophrenia Chronic schizophrenia Paranoid schizophrenia Schizophrenia Schizophrenia, borderline Schizophrenia, catatonic Schizophrenia, chronic Schizophrenia, paranoid

Bone Disease	
> Osteoporosis	Osteopenia Osteoporosis Osteoporosis, steroid induced Steroid induced osteoporosis Steroid osteopathy
> Osteoarthritis	Ankle osteoarthritis Cervical spine osteoarthritis Hip osteoarthritis Hip osteoarthrosis Knee osteoarthritis Knee osteoarthrosis Lumbar spine osteoarthritis OA Osteoarthritis Osteoarthritis in neck Osteoarthritis cervical spine Osteoarthritis in fingers Osteoarthritis in hand Osteoarthritis in lumbar spine Osteoarthritis of ankle Osteoarthritis of hip Osteoarthritis of knee Osteoarthrosis
Other	
> Hyperlipidaemia	Dyslipidaemia Familial hypercholesterolaemia Hyperlipidaemia Hyperlipidaemia type 2 Hyperlipoproteinaemia, Type 2
> Renal Impairment	Acute renal failure Chronic renal failure Haemodialysis Hepatorenal syndrome Kidney failure, acute Kidney failure, chronic Kidney failure Renal artery stenosis Renal dialysis Renal failure Renal failure, acute Renal failure, chronic Stenosis of renal artery Uraemia Dialysis Renal impairment Chronic Kidney Disease, Chronic Kidney Disease, Stage 1-5

Appendix C-1-i - Pregnancy

Pregnancy is true if the patient has a current pregnancy under the Obstetrics tab.

APPENDIX C-2 - MEDICATIONS DATA MAPPINGS (BP)

Medications – Heart

CAT Category	Best Practice Mapping – Generic Name
ARB	Candesartan Cilexetil Candesartan Cilexetil, Hydrochlorothiazide Eprosartan Mesylate Eprosartan Mesylate, Hydrochlorothiazide Irbesartan Irbesartan, Hydrochlorothiazide Losartan Potassium Olmesartan medoxomil Olmesartan medoxomil, Hydrochlorothiazide Telmisartan Telmisartan, Hydrochlorothiazide
ACE Inhibitors	Captopril Enalapril Maleate Enalapril Maleate, Hydrochlorothiazide Fosinopril Sodium Fosinopril Sodium, Hydrochlorothiazide Lisinopril Perindopril Arginine Perindopril arginine, Indapamide hemihydrate Perindopril Erbumine Perindopril erbumine, Indapamide hemihydrate Quinapril Quinapril, Hydrochlorothiazide Ramipril Ramipril, Felodipine Trandolapril Trandolapril, Verapamil
Aspirin	Aspirin Aspirin, Glycine Dipyridamole, Aspirin
Warfarin	Coumadin Marevan Warfarin
Clopidogrel	Clopidogrel Iscover Plavix

Beta Blockers	Atenolol Bisoprolol fumarate Carvedilol Labetalol Hydrochloride Metoprolol Succinate Metoprolol Tartrate Oxprenolol Hydrochloride Pindolol Propranolol Hydrochloride Sotalol Hydrochloride
Calcium Antagonists	Amlodipine Amlodipine Besylate Amlodipine besylate, atorvastatin Amlodipine Maleate Diltiazem Hydrochloride Diltiazem Hydrochloride (Controlled Delivery) Felodipine Lercanidipine Hydrochloride Nifedipine Ramipril, Felodipine Trandolapril, Verapamil Verapamil Hydrochloride
Diuretics	Bendrofluazide Bumetanide Candesartan Cilexetil Candesartan Cilexetil, Hydrochlorothiazide Diazoxide Enalapril Maleate, Hydrochlorothiazide Eprosartan Mesylate Eprosartan Mesylate, Hydrochlorothiazide Ethacrynic Acid Fosinopril Sodium, Hydrochlorothiazide Frusemide Hydrochlorothiazide Hydrochlorothiazide, Amiloride Hydrochlorothiazide, Triamterene Hydrochlorothiazide/Amiloride Hydrochlorothiazide/Triamterene Indapamide Hemihydrate Irbesartan, Hydrochlorothiazide Olmesartan medoxomil, Hydrochlorothiazide Perindopril arginine, Indapamide hemihydrate Quinapril, Hydrochlorothiazide Telmisartan, Hydrochlorothiazide
Lipid M/fying - Statins	Amlodipine besylate, atorvastatin Atorvastatin Ezetimibe, Simvastatin Fluvastatin Pravastatin Sodium Rosuvastatin Simvastatin

Lipid M/fying - Other	Cholestyramine Colestipol Hydrochloride Ezetimibe Ezetimibe, Simvastatin Fenofibrate Gemfibrozil Nicotinic Acid

Medications Other

Antidiabetics	
H/glycaemics – Insulin	Insulin Aspart Insulin aspart Insulin aspart rys Insulin Aspart, Insulin Aspart Protamine Suspension Insulin detemir Insulin glargine Insulin glulisine Insulin Isophane (N.P.H.) Bovine Insulin Isophane (N.P.H.) Human Insulin lispro Insulin Lispro Insulin lispro, Insulin lispro Protamine Suspension Insulin Lispro, Insulin Lispro Protamine Suspension Insulin Neutral (Bovine) Insulin Neutral (Human) Insulin Neutral 20%, Isophane 80% Human Insulin Neutral 30%, Isophane 70% Human Insulin Neutral 30%, Isophane 70% Human Insulin Neutral Bovine Insulin Neutral, Isophane (Human) Insulin Neutral/Isophane (Human) Insulin Zinc Suspension (Human) Neutral Insulin (Human)
H/glycaemics – Oral	Glibenclamide Gliclazide Glimepiride Glipizide Metformin Hydrochloride Metformin Hydrochloride, Glibenclamide Metformin Hydrochloride, Glibenclamide Metformin, Glibenclamide Metformin, Glibenclamide Pioglitazone Hydrochloride Rosiglitazone Rosiglitazone Maleate, Metformin Hydrochloride Rosiglitazone Maleate, Metformin Hydrochloride

Metformin	Avandamet Chem Mart Diabex Diaformin Formet GenRx Glucohexal Glucomet	Glucophage Glucovance Healthsense Metex Metforbell Metformin Metformin-BC Rosiglitazone/Metformin
Mental Health		
Antipsychotics	Abilify Amipride Amisulpride Anatensol Anxiostat Aripiprazole Chlorpromazine Clopine Clopixol CloSyn Clozapine Clozaril DBL Deprel Droleptan Droperidol Fluanxol Flupenthixol Fluphenazine Haldol Haloperidol Invega Largactil Lithicarb	Lithium Modecate Neulactil Nutrition Care Olanzapine Orion Paliperidone Pericyazine Quetiapine Quilonum Rispa Risperdal Risperidone Rixadone Serenace Seroquel Solian Stelazine Trifluoperazine Zeldox Ziprasidone Zuclopenthixol Zyprexa

Cortocosteroids		
Glucorticoids	Advantan Aldecin Alvesco Antroquoril Aristocort Avamys Beclomethasone Beconase Betamethasone Betnovate Budamax Budesonide Budesonide/Eformoterol Celestone Ciclesonide Ciprofloxacin/Hydrocortisone Ciproxin Colifoam Cortaid Cortate Cortef Cortic Cortisone Daivobet DBL Depo-Medrol Depo-Nisolone Dermaid Dexamethasone Dexmethsone Diprosone Egocort Eleuphrat Elocon Entocort Flixonase Flixotide Fluticasone Hycor Hydrocortisone Hydroform Hydrozole Hysone	Kenacomb Kenacort-A Kenalog Maxidex Methylprednisolone Minims Mometasone Nasonex Neo-Medrol Novasone Otocomb Otodex Panafcort, Panafcortelone Predmix Prednefrin Prednisolone Prednisone Predsol Predsolone Predsone Proctosedyl Pulmicort Qvar Rectinol Redipred Resolve Rhinocort Scheriproct Seretide Sigmacort Siguent Hycor Sofradex Solone Solu-Cortef Solu-Medrol Sone Symbicort Telnase Triamcinolone Tricortone Xyloproct

Pain Relief		
Nsaids	Aclin ACT-3 Actiprofen Acular Advil Aleve Anaprox Arthrexin Arthrotec Brufen Bugesic Chem Mart Chemists' Own Clinoril Clonac Crysanal Dencorub Diclac Diclofenac Diclofenac-BC Diclohexal Dimetapp Dinac Eazydayz Feldene Femme Free Fenac GenRx Healthsense Hexal Ibuprofen Imflac Indocid	Indomethacin Inza Ketoprofen Ketorolac Mefenamic Acid Mefic Mobilis Naprogesic Naprosyn Naproxen Nurofen Nurolasts Orudis Oruvail Pain Relief Panafen Pirohexal-D Piroxicam Ponstan Proven Proxen Rafen Rosig Solaraze Sudafed Sulindac Surgam Terry White Chemists Tiaprofenic Acid Toradol Tri-Profen Voltaren Voltfast
Cox2	Arcoxia Celebrex Celecoxib Chem Mart Dynastat Etoricoxib GenRx Lumiracoxib Meloxibell	Meloxicam Mobic Movalis Moxicam Parecoxib Prexige Rofecoxib Terry White Chemists Vioxx

Respiratory	
Asthma – Inhaled	Aldecin Alvesco Avamys Beclomethasone Beconase Budamax Budesonide Budesonide/Eformoterol Ciclesonide Entocort Flixonase Flixotide Fluticasone Pulmicort Qvar Rhinocort Seretide Symbicort
(Respiratory) COPD	Spiriva Tiotropium

Appendix C-2-1 Immunisations

Immunisations are collected if they have been entered in the Best Practice Immunisations screen.
The values collected for each type of immunisation are:

Influenza	Pneumococcal	Gardasil	Pertussis
FLUVAX FLUARIX FLUAD FLUVIRIN FLUVAX JUNIOR INFLUENZA INFLUVAC VAXIGRIP	PNEUMOVAX 23 PREVENAR PNEUMOCOCCUS	HPV GARDASIL CERVARIX	ADACEL ADACEL POLIO BOOSTRIX BOOSTRIX IPV INFANRIX HEXA INFANRIX IPV INFANRIX PENTA INFANRIX-HEP B PEDIACEL PERTUSSIS PERTUSSIS (MONAVALENT) POLIACEL QUADRACEL TRIPACEL TRIPLE ANTIGEN

APPENDIX C-3 - GENERAL DATA MAPPINGS (BP)

Demographic	Best Practice Mapping
Gender	Open > Demographics screen > Sex
Ethnicity	Open > Demographics screen > Drop down list for Aboriginal / TSI
DVA	Open > Demographics screen > DVA No. has a value
Age	Open > Demographics screen > DOB
Last Visit	Past Visits screen > Checks most recent date in the list
Postcode	Open > Demographics screen > Postcode

Allergy	Best Practice Mapping Main Patient Screen > Allergies / Adverse Drug Reactions Box
Allergy Recorded	An Allergy Item is present
No Known Allergies	The 'Nil Known' check box is checked
Nothing Recorded	No Allergy Items are present and the 'Nil Known' check box is unchecked

Smoking	Best Practice Mapping Main Patient screen > Open > Alcohol and Smoking History > Tobacco
Daily Smoker	Smoker = Smoker is selected
Irregular Smoker	This option is not captured in Best Practice
Ex Smoker	Smoker = Ex-Smoker is selected
Never Smoked	Smoker = Never smoked is selected
Nothing Recorded	Smoker has nothing selected

Measurements	Best Practice Mapping
BMI	Patient Record > Main Patient Screen > Observations screen
Waist	Patient Record > Main Patient Screen > Observations screen
BSLF	Patient Record > Main Patient Screen > Observations screen OR Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen.
Cholesterol HDL LDL Triglycerides	Lipids data : Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen.
Creatinine	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen.
Microalbumin	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen.
HbA1c	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen.
BP	Patient Record > Main Patient screen either - opening the Observations screen, or - opening the Enhanced Primary Care > Diabetes Cycle of Care screen.
Respiratory - Spirometry	Today's Notes >History and Examination > Respiratory > Calculator > FEV1 and FVC

Pap Smear
The Pap Smear data can be found in Best Practice by opening a Female Patient Record and from the Main Patient screen opening the Cervical Smears screen. If there are smear tests they will be listed by date.

Patients with tick-box 'Not Required' checked are ignored.

Disease	Best Practice Mapping
Condition	Past History screen > Checks the condition selected on history items, where Conditions are selected from a coded list. Refer to Appendix C-1 for a list of conditions mapping to each CAT condition.

Medications	Best Practice Mapping
Medication	Current Rx screen > Checks the Drugs listed as current medications, where Drugs are selected from a coded list. Refer to Appendix C-2 for a list of medications mapping to each CAT medication.
HMR	Current Rx screen > Counts All Drugs listed as current medications

APPENDIX C-4 – DIABETES SIP DATA MAPPINGS (BP)

Item	Best Practice Mapping
HbA1c	Enhanced Primary Care > Diabetes Cycle of Care
Eye Exam	Enhanced Primary Care > Diabetes Cycle of Care
BMI	Observations
Waist	Observations Or Enhanced Primary Care > Diabetes Cycle of Care
BSLF	Observations Or Enhanced Primary Care > Diabetes Cycle of Care
BP	Observations Or Enhanced Primary Care > Diabetes Cycle of Care
Foot Exam	Enhanced Primary Care > Diabetes Cycle of Care
Cholesterol	Enhanced Primary Care > Diabetes Cycle of Care
Triglycerides	Enhanced Primary Care > Diabetes Cycle of Care
HDL	Enhanced Primary Care > Diabetes Cycle of Care
Microalbumin	Enhanced Primary Care > Diabetes Cycle of Care
Smoking	Open > Alcohol and Smoking History > Tobacco